



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

October 8, 1996

TO: Mary Ann Wright, Associate Director of Mining

FROM: Robert Davidson, Soils Reclamation Specialist *RD*

RE: Laboratory Needs

Laboratory space request includes the following:

- 1 bank of drawers
- small bench area
- sink and drying rack
- fume hood
- sample preparation area - storage, drying, bucking, grinding and sieving, etc

DOGM Laboratory and Field Equipment includes the following:

- Hach DREL/5 Spectrophotometer
 - Current soil extraction procedures and analytical capabilities include potassium, nitrate, nitrite, phosphorus and lime requirement.
- Hydac Monitor - conductivity, pH, and temperature
- Sieve set - 10, 18, 35, 60 120 and 230 mesh
- Millipore filtration funnels
- Nalgene hand vacuum pump
- Hach digital titrator
- 2 glass pipets - 2 and 10 mL
- 1 Erlenmeyer flask - 125 mL
- 1 Erlenmeyer Suction flask - 125 mL
- 1 Buchner Funnel
- 1 graduated cylinder - 50 mL

DOGM expects only occasional laboratory use for a couple of hours per week or less. DOGM will purchase laboratory supplies for its own needs as specific demands arise. However, on occasion, as unforeseen needs arise, DOGM requests the opportunity to use some laboratory glassware and hardware. DOGM anticipates that these case-by-case requests will be infrequent.

cc: Daron Haddock
C:\WPFILES\LABMEMO.RAD

CC B. Stripp
B. Davidson
D. Haddock
P. Brubaker-Hitt
D. Helfrich
11-26-96
11/25/96

MEMORANDUM OF UNDERSTANDING
UTAH GEOLOGICAL SURVEY SPACE LAB

between
Division of Oil, Gas and Mining, hereinafter, DOGM
and
Utah Geological Survey, hereinafter, UGS

Relative to: Use of UGS Clean Lab space ("lab") by DOGM, storage of equipment and use of basic lab equipment.

Services to be provided by UGS:

UGS agrees to the incidental or occasional use by DOGM of UGS lab space and its basic facilities such as: lab bench, sink, drying rack, fume hood; sample preparation area for purposes of storage, drying, bucking, grinding sieving, etc.; and minor lab and field equipment storage, such as the use of a bank of drawers, or similar space. As part of the operation of the lab UGS will:

- Designate the lab area for storage and/or lab operations.
- Designate a contact person for coordination under this MOU.
- Negotiate and approve details of lab use under this MOU, such as cost sharing of on assumable supplies, such as reagents.
- Provide clear expectations of lab use protocol.

Responsibilities of DOGM:

To facilitate the operation of the lab, DOGM will:

- Designate a person responsible for DOGM use of the lab.
- Use the lab for DOGM business only.
- Follow UGS-designated protocol in the use of the lab.
- Use the lab as described in memo attached to and part of this MOU (Attachment A), dated October 8, 1996, from Robert Davidson to Mary Ann Wright.
- Coordinate and cooperate on the use of equipment as negotiated and approved by UGS.

Agreed to this 13 day of November, 1996

James P. Bright
for J.W. Custer
Director
Division of Oil, Gas and Mining

Robert Davidson
Director
Utah Geological Survey